

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Please amend the claims as follows:

1. (Currently Amended) A computer-implemented method comprising:  
maintaining a plurality of stored signatures in a data storage device, each signature being associated with one of a plurality of registered documents;  
intercepting packets being transmitted over a network between a source and a destination;  
reassembling the packets into an intercepted document complete flow, wherein the intercepted complete flow represents an ordered data stream of a communication between the source and the destination;  
extracting a reassembled object from the intercepted complete flow to determine a content type of the reassembled object;  
calculating a set of signatures associated with the ~~intercepted document~~ reassembled object based on the content type; and  
comparing the set of signatures associated with the ~~intercepted document~~ reassembled object with the plurality of stored signatures to determine if the ~~intercepted document~~ reassembled object contains content associated with a registered document, wherein each registered document is associated with a user that requested registration of the document, the user being alerted if an attempt to transmit the registered document over a network is made, ~~whereby an alert element is configured during the requested registration of the registered document, wherein a capture system that maintains the stored signatures is configured to allow the intercepted document to be forwarded from the capture system to its intended destination at a network node unless a capture rule prohibits forwarding the intercepted document based on the intercepted document including one or more objects.~~

2. (Canceled)

3. (Currently Amended) The method of claim 1, further comprising, if the comparison results in a match of at least one of the signatures in the set of signatures with one or more of the plurality of stored signatures, then detecting registered content from the registered document being contained in the ~~intercepted document~~ reassembled object.

4. (Canceled)

5. (Currently Amended) The method of claim 3, further comprising halting delivery of the intercepted ~~document~~ complete flow.

6. (Currently Amended) The method of claim 5, further comprising prompting the user that requested registration of the registered document for permission to deliver the intercepted ~~document~~ complete flow, receiving permission from the user, and completing delivery of the intercepted ~~document~~ complete flow in response to receiving permission.

7. (Currently Amended) The method of claim 1, wherein calculating the set of signatures of the ~~intercepted document~~ reassembled object comprises calculating a plurality of hashes over one or more portions of the ~~intercepted document~~ reassembled object.

8. (Currently Amended) An apparatus comprising:

a network interface module to connect the apparatus to a network;

a signature database to store a first set of signatures, the first set of signatures being associated with a registered object, wherein the first set of signatures stored in the signature database is associated with a user who requested registration of the registered object;

an object capture module to intercept packets being transmitted over the network **between a source and a destination;**

an object assembly module to reassemble the packets into an intercepted ~~object~~ **complete flow, wherein the intercepted complete flow represents an ordered data stream of a communication between the source and the destination;**

**an object classification module to extract a reassembled object from the intercepted complete flow to determine a content type of the reassembled object;** and

a registration module comprising a registration engine to generate a second set of signatures **based on the content type**, the second set of signatures being associated with the ~~intercepted~~ **reassembled** object, and a search engine to compare the second set of signatures with the first set of signatures, the apparatus being configured to alert the user if an attempt to transmit the registered **object** ~~document~~ over a network is made, ~~whereby an alert element is configured during the requested registration of the registered document, wherein the object capture module is configured to allow an intercepted document that includes the intercepted object to be forwarded to its intended destination at a network node unless a capture rule prohibits forwarding the intercepted document based on the intercepted document including one or more objects.~~

9. (Canceled)

10. (Previously Presented) The apparatus of claim 8, wherein the registration module detects registered content from the registered object being transmitted over the network if the search engine matches one or more signatures in the second set of signatures with one or more signatures in the first set of signatures.

11. (Previously Presented) The apparatus of claim 10, wherein the registration module further comprises a notification module to generate an alert for the user who requested registration of the registered object in response to detecting registered content from the registered object being transmitted over the network.

12. (Currently Amended) The apparatus of claim 8, further comprising an object store module to store the ~~intercepted~~ reassembled object.

13. (Currently Amended) The apparatus of claim 12, wherein the registration module halts delivery of the intercepted ~~object~~ complete flow from the object store module to ~~its~~ the destination in response to detecting registered content from the registered object being transmitted over the network.

14. (Currently Amended) The apparatus of claim 13, wherein the registration module allows completion of the delivery of the intercepted ~~object~~ complete flow from the object store module to ~~its~~ the destination in response to receiving permission from the user who requested registration of the registered object.

15. (Currently Amended) The apparatus of claim 8, wherein the registration engine generates the second set of signatures by calculating a plurality of hashes over various portions of the ~~intercepted~~ reassembled object.

16. (Currently Amended) A machine-readable medium storing a sequence of instructions that, when executed by a processor, cause the processor to perform operations comprising:

maintaining a plurality of stored signatures in a data storage device, each signature being associated with one of a plurality of registered documents ~~objects~~, wherein each registered document ~~object~~ is associated with a user that requested registration of the ~~object~~ document;

intercepting packets being transmitted over a network between a source and a destination;

reassembling the packets into an intercepted ~~object~~ complete flow, wherein the intercepted complete flow represents an ordered data stream of a communication between the source and the destination;

extracting a reassembled object from the intercepted complete flow to determine a content type of the reassembled object;

calculating a set of signatures associated with the ~~intercepted object~~ reassembled object based on the content type;

comparing the set of signatures associated with the ~~intercepted object~~ reassembled object with the plurality of stored signatures to determine if the ~~intercepted document~~ reassembled object contains content associated with a registered document; and

alerting the user if an attempt to transmit the registered document over a network is made, ~~whereby an alert element is configured during the requested registration of the registered document, wherein a capture system that maintains the stored signatures is configured to allow an intercepted document that includes the intercepted object to be forwarded from the capture system to its intended destination at a network node unless a capture rule prohibits forwarding the intercepted document based on the intercepted document including one or more objects.~~

17. (Canceled)

18. (Currently Amended) The machine-readable medium of claim 16, wherein the ~~instruction~~ instructions further cause the processor to detect registered content from the registered document ~~object~~ being contained in the ~~intercepted~~ reassembled object, if the comparison results in a match of at least one of the signatures in the set of signatures with one or more of the plurality of stored signatures.

19. (Currently Amended) The machine-readable medium of claim 18, wherein the instructions further cause the processor to halt delivery of the ~~intercepted~~ reassembled object.

20. (Canceled)

21. (Currently Amended) The machine-readable medium of claim 19, wherein the instructions further cause the processor to prompt the user that requested registration of the registered ~~object~~ document for permission to deliver the ~~intercepted~~ reassembled object, and to deliver the intercepted ~~object~~ complete flow if permission is given.

22. (Currently Amended) A machine-readable medium storing a sequence of instructions that, when executed by a processor, cause the processor to perform operations comprising:

receiving a document to be registered;

calculating a set of one or more signatures for the document, based on a content type of the document;

storing the set of signatures in a database for comparison against signatures of captured documents, wherein the captured documents represent reassembled objects extracted from an ordered stream of data representing a communication between a source and a destination, wherein the set of signatures is associated with a user that requested registration of the document; and

alerting the user if an attempt to transmit the registered document over a network is made, whereby an alert mechanism is configured by the user during the requested registration of the registered document, ~~wherein a capture system that maintains the stored signatures is configured to allow the document to be forwarded from the capture system to its intended destination at a network node unless a capture rule prohibits forwarding the document based on the intercepted document including one or more objects.~~

23. (Canceled)

24. (New) The computer-implemented method of claim 1, wherein the intercepted complete flow includes a plurality of reassembled objects.

25. (New) The apparatus of claim 8, wherein the intercepted complete flow includes a plurality of reassembled objects.

26. (New) The machine-readable medium of claim 16, wherein the intercepted complete flow includes a plurality of reassembled objects.